

## Published Papers

1. *Horia D. Cornean and Radu Purice*: Sharp spectral stability for a class of singularly perturbed pseudo-differential operators. **Journal of Spectral Theory** **13** (3), (2023), pag. 1129 - 1144, doi: DOI 10.4171/JST/471
2. *Horia D. Cornean, Bernard Helffer and Radu Purice*: Spectral analysis near a Dirac type crossing in a weak non-constant magnetic field. **Transactions of the American Mathematical Society** **374** (10), (2021), p. 7041–7104.
3. *Horia Cornean, Bernard Helffer, Radu Purice*: Peierls' substitution for low lying spectral energy windows, **Journal of Spectral Theory** **9** (4)(2019) pag. 1179 – 1222.
4. *Horia Cornean, Viorel Iftimie, Radu Purice*: Peierls' substitution via minimal coupling and magnetic pseudo-differential calculus, **Reviews in Mathematical Physics** **31** (3) (2019), Art. nr. **1950008**.
5. *Viorel Iftimie, Marius Mantoiu, Radu Purice*: Quantum observables as magnetic PsiDO, **Revue Roumaine de Mathématiques Pures et Appliquées** **64** (2-3) (2019), pag. 197 -- 223
6. *Horia Cornean, Bernard Helffer, Radu Purice*: A Beals criterion for magnetic pseudodifferential operators proved with magnetic Gabor frames, **Communications in Partial Differential Equations** **43** (8) (2018), pp. 1196 --1204.
7. *Nassim Athmouni and Radu Purice*: A Schatten-von Neumann class criterion for the magnetic Weyl calculus, **Communications in Partial Differential Equations** **43** (5), (2018), pag. 733--749.
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14. *Marius Mantoiu, Radu Purice:* Abstract composition laws and their modulation spaces. **Journal of Pseudo-Differential Operators and Applications**, **3** (3) (2012), 283 – 307;
15. *Măntoiu, Marius; Purice, Radu; Richard, Serge:* Positive quantization in the presence of a variable magnetic field. **Journal of Mathematical Physics**, **52** (2011), no. 11, 112101, 15 pp. FI: 1.210, SRI: 0.609
16. *Viorel Iftimie, Radu Purice:* Eigenfunctions decay for magnetic pseudodifferential operators, **Journal of Mathematical Physics**, **52** (9) (2011), (11 pages).
17. *Viorel Iftimie, Radu Purice:* Magnetic Fourier integral operators, **Journal of Pseudo-Differential Operators and Applications**, **2** (2)(2011), 141 – 218;
18. *Mantoiu, Marius; Purice, Radu; Richard, Serge:* Coherent states and pure state quantization in the presence of a variable magnetic field, **International Journal of Geometric Methods in Modern Physics**, **8** (1)(2011), 187--202;
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21. *Viorel Iftimie, Marius Mantoiu, Radu Purice:* Commutator Criteria for Magnetic Pseudodifferential Operators. **Comm. Partial Diff. Eq.** **35** (2010), 1058—1094.
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